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<u>L7</u> L6 and @pd > 20040501 (5850554 5226162 5649207 5940617 6003143 6016474 6026362 4782461 5257269 5704034 5717851 5737516 5964893 6026501 6035422 6324683 5892941 6219782 6219782 5764989 5848274 6412106 5964890 6011916	0	<u>L7</u>
<u>L6</u> 6185578 5859963 6131185 6282699 6249882 5872909 5630052 6058333 5253158 5560036 6026235 6106571 6106572 6145123 5784552 6126328 6058393 5295222 5513317 5870607 5903719 5961641 5983018 6173395 6178547 6209045).pn.	0	<u>L6</u>
<u>L5</u> debugger AND (test ADJ script) <i>DB=JPAB; PLUR=NO; OP=OR</i>	0	<u>L5</u>
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<u>L3</u> debugger <i>DB=USPT; PLUR=NO; OP=OR</i>	667	<u>L3</u>
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L1 debugger

1623 L1

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☐ 1. Document ID: US 6721713 B1

L2: Entry 1 of 29

File: USPT

Apr 13, 2004

US-PAT-NO: 6721713

DOCUMENT-IDENTIFIER: US 6721713 B1

TITLE: Business alliance identification in a web architecture framework

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 705/1; 709/223, 715/503

ABSTRACT:

A system, method and article of manufacture are provided for identifying alliances among a plurality of business entities in components of a network framework. First, alliances are identified among a plurality of business entities in terms of components of a current network framework. Next, a pictorial representation is displayed of the current network framework and the components. The alliances are then conveyed by indicia coding the components of the current network framework in which the alliances exist.

10 Claims, 177 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	DRAW D
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☐ 2. Document ID: US 6718535 B1

L2: Entry 2 of 29

File: USPT

Apr 6, 2004

US-PAT-NO: 6718535

DOCUMENT-IDENTIFIER: US 6718535 B1

**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for an activity framework design in an e-commerce based environment

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/101; 717/120

ABSTRACT:

A system and method are provided for providing an activity framework. First, a plurality of sub-activities are created which each include sub-activity logic adapted to generate an output based on an input received from a user upon execution. Second, a plurality of activities are defined which each execute the sub-activities in a unique manner upon being selected for accomplishing a goal associated with the activity. Selection of one of the activities is allowed by receiving user indicia. An interface is depicted for allowing receipt of the input and display of the output during execution of the sub-activities associated with the selected activity.

24 Claims, 179 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Draw De
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☐ 3. Document ID: US 6704873 B1

L2: Entry 3 of 29

File: USPT

Mar 9, 2004

US-PAT-NO: 6704873

DOCUMENT-IDENTIFIER: US 6704873 B1

TITLE: Secure gateway interconnection in an e-commerce based environment

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 713/201; 709/223, 709/249

ABSTRACT:

A system and method of providing a global internetworking gateway architecture in an e-commerce environment are provided. A plurality of gateways each situated in a distinct geographic location are coupled to an internet. A wide area network, separate from the internet, is coupled to each of the gateways for providing communication between the wide area network and the internet. Coupled to the wide

area network is a central database for providing a central storage for data used in e-commerce carried out over the internet. In one embodiment, at least one of the gateways includes at least one screening router coupled to the internet service provider, at least one firewall connected to the screening router, and a choker router coupled between the wide area network and the firewall.

16 Claims, 179 Drawing figures

Exemplary Claim Number: 5

Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw De
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☐ 4. Document ID: US 6701514 B1

L2: Entry 4 of 29

File: USPT

Mar 2, 2004

US-PAT-NO: 6701514

DOCUMENT-IDENTIFIER: US 6701514 B1

TITLE: System, method, and article of manufacture for test maintenance in an automated scripting framework

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		
Schramm; Kevin	Rose Valley	PA		

US-CL-CURRENT: 717/115; 707/102, 717/124

ABSTRACT:

A system, method and article of manufacture are provided for affording test maintenance in an automated scripting framework. First, a plurality of test scripts are developed. Then, the plurality of test scripts are stored in a centrally located database. A user is then allowed to edit a specific test script located on the centrally located database. Finally, the user edits to the specific test script are propagated to each of the plurality of test scripts.

18 Claims, 82 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 52

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw De
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☐ 5. Document ID: US 6701345 B1

L2: Entry 5 of 29

File: USPT

Mar 2, 2004

US-PAT-NO: 6701345
DOCUMENT-IDENTIFIER: US 6701345 B1

TITLE: Providing a notification when a plurality of users are altering similar data in a health care solution environment

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carley; Kevin W.	Atlanta	GA		
Harrington; Lisa Marie	Denver	CO		
Dikeman; Jennifer Scot	Atlanta	GA		
Moody; Megan Davies	Denver	CO		
Gregory; Mary Michelle	Atlanta	GA		

US-CL-CURRENT: 709/205; 707/8, 709/232

ABSTRACT:

A notification when multiple users attempt to alter the same data may first begin when connections to a plurality of user stations are monitored. An instruction for initiating a load process is received from a user station. Data is downloaded from the one of the user stations to the server. It is determined whether another load process is being concurrently executed by another user station. If it is determined that a load process is being concurrently executed, a notification is sent to the user station. A notification is also sent to the user station that initiated the concurrently executing load process. At least one of the load processes is suspended upon detecting the concurrently executed load process. At least one of the load processes may be allowed to continue upon receiving a command to continue from the user station associated with the suspended load process.

18 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ROME	Draw De
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☐ 6. Document ID: US 6662357 B1

L2: Entry 6 of 29

File: USPT

Dec 9, 2003

US-PAT-NO: 6662357
DOCUMENT-IDENTIFIER: US 6662357 B1
**** See image for Certificate of Correction ****

TITLE: Managing information in an integrated development architecture framework

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Bowman-Amuah; Michel K. Colorado Springs CO

US-CL-CURRENT: 717/120

ABSTRACT:

A system, method, and article of manufacture are provided for managing information in a development architecture framework. Common information that is used by a plurality of components of a system is allowed to be accessed in a single, shared repository. Unique information that is unique to the components of the system is stored in corresponding designated folders. Media content communicated in the system is managed based on metadata thereof.

18 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMHC	Draw De
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☐ 7. Document ID: US 6633878 B1

L2: Entry 7 of 29

File: USPT

Oct 14, 2003

US-PAT-NO: 6633878

DOCUMENT-IDENTIFIER: US 6633878 B1

TITLE: Initializing an ecommerce database framework

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/100; 707/1, 707/102, 707/205

ABSTRACT:

A system, method and article of manufacture are provided for initializing a database used with an issue tracker. The issue tracker receives information relating to a plurality of issues from a plurality of users, displays the information relating to the issues, and allows the browsing of the information relating to each of the issues. To initialize the database, the information relating to the issues is stored in a first database. A second database is also provided that stores tables including: a plurality of user interfaces; and/or application logic for accessing the information in the first database. The tables of the second database are reconfigured upon migrating the first database from a first folder to a second folder.

15 Claims, 179 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D.
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☐ 8. Document ID: US 6629081 B1

L2: Entry 8 of 29

File: USPT

Sep 30, 2003

US-PAT-NO: 6629081

DOCUMENT-IDENTIFIER: US 6629081 B1

**** See image for Certificate of Correction ****

TITLE: Account settlement and financing in an e-commerce environment

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cornelius; Richard D.	Santa Monica	CA		
Stepniczka; Andreas	San Francisco	CA		
Chu; Kevin	Atlanta	GA		

US-CL-CURRENT: 705/30

ABSTRACT:

A system, method and article of manufacture are provided for account settlement utilizing a network. First, a buyer is allowed to select from a group of options in order to settle an account utilizing a network. The options include settling a minimum balance, partially settling, settling a full balance, and applying for an import loan on payment due date. The selected option is then received utilizing the network. Finance interest may then be booked against the buyer for an unpaid portion of the account if the selected option includes either settling a minimum balance or partially settling. If the selected option includes settling a full balance, the account may be reconciled. On the other hand, if the selected option includes applying for an import loan on payment due date, an import loan may be booked and a credit line may be transferred to a trade loan line.

18 Claims, 112 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 105

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D.
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☐ 9. Document ID: US 6615166 B1

L2: Entry 9 of 29

File: USPT

Sep 2, 2003

US-PAT-NO: 6615166

DOCUMENT-IDENTIFIER: US 6615166 B1

TITLE: Prioritizing components of a network framework required for implementation

of technology

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 703/27; 703/26, 709/220, 709/223, 709/231, 717/140, 719/316

ABSTRACT:

A system and method are provided for prioritizing components of an existing network framework. First, a plurality of components required for implementation of a predetermined technology using an existing network framework are provided. Next, a priority listing of the components is compiled such that the relative position of the components on the priority listing corresponds to a temporal priority among the components. The existing network framework and the components are pictorially represented. Next, a first component of the existing network framework is indicia coded in order to indicate that the first component must be installed first based on the component's position on the priority listing. Thereafter, a second component and any remaining components of the existing network framework is indicia encoded in order to indicate that the second component and any remaining components must be installed after the first component based on the second component's position on the priority listing.

18 Claims, 177 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KB/C	Draw De
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☐ 10. Document ID: US 6609128 B1

L2: Entry 10 of 29

File: USPT

Aug 19, 2003

US-PAT-NO: 6609128

DOCUMENT-IDENTIFIER: US 6609128 B1

TITLE: Codes table framework design in an E-commerce architecture

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/10; 707/200

ABSTRACT:

A system, method and article of manufacture are provided for maintaining application consistency. First, a table of codes and associated text phrases are provided. Such table of codes is stored on a local storage medium within an e-commerce computer architecture. Next, the table of codes is accessed on the local storage medium within the e-commerce computer architecture. One of the text phrases is subsequently retrieved by selecting a corresponding one of the codes of the table. During operation, modification of the text phrases associated with each of the codes of the table is permitted. A plurality of services are executed, including retrieving a single one of the text phrases, retrieving all of the text phrases in response to a single command, updating a single code and text phrase combination, updating all of the code and text phrase combinations, naming the table, adding a new code and text phrase combination, removing one of the code and text phrase combination, and adding another table.

15 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw D
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☐ 11. Document ID: US 6601233 B1

L2: Entry 11 of 29

File: USPT

Jul 29, 2003

US-PAT-NO: 6601233

DOCUMENT-IDENTIFIER: US 6601233 B1

**** See image for Certificate of Correction ****

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then generated to carry out the capabilities of the logical business components and the functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw D
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☐ 12. Document ID: US 6571285 B1

L2: Entry 12 of 29

File: USPT

May 27, 2003

US-PAT-NO: 6571285
DOCUMENT-IDENTIFIER: US 6571285 B1

TITLE: Providing an integrated service assurance environment for a network

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Groath; Steve G.	Burnsville	MN		
Miller; Myke L.	Excelsior	MN		
Sachse; Christopher	Maplewood	MN		
Bloom; Jeremy D.	San Francisco	CA		
Turkson; Leslie T.	Eagan	MN		
Lund; Timothy	Lakeville	MN		
Beskar; Patrick J.	Mahotmedi	MN		

US-CL-CURRENT: 709/223; 370/352, 370/389, 709/224

ABSTRACT:

A method providing service assurance for a network to maintain an agreed upon Quality of Service. First, an alarm is generated to indicate a status of a network. The generation of the alarm comprises selecting a parameter of network to be monitored; determining a triggering level of the parameter; monitoring the parameter of an occurrence of the triggering level; and initiating alarm notification upon the monitored occurrence of the triggering level. Network event information is then dispatched upon generation of the alarm and is subsequently mapped. The data collected on the status of the network is then manipulated by concatenating the data collected on a network into a master file; reformatting the data into a standardized format; translating the data to key codes; sorting the data according to predetermined criteria; and concatenating the sorted data together. The data is then sorted in a database. Thereafter, network availability is conveyed graphically.

12 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw D
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13. Document ID: US 6536037 B1

L2: Entry 13 of 29

File: USPT

Mar 18, 2003

US-PAT-NO: 6536037

DOCUMENT-IDENTIFIER: US 6536037 B1

**** See image for Certificate of Correction ****

TITLE: Identification of redundancies and omissions among components of a web based architecture

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 717/151; 703/2, 709/231

ABSTRACT:

A system, method and article of manufacture are provided for conveying redundancies and omissions among components of a network framework such as a web architecture framework. First, an area of an existing network framework is determined in which redundancies and omissions exist. Next, a pictorial representation of the existing network framework is presented along with a plurality of its components. The foregoing redundancies and the omissions are then highlighted by indicia coding the components of the existing network that reside in the area. As such, a diagnostic analysis of redundant efforts and gaps in a current implementation of the existing network framework is effectively conveyed.

19 Claims, 177 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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14. Document ID: US 6523027 B1

L2: Entry 14 of 29

File: USPT

Feb 18, 2003

US-PAT-NO: 6523027

DOCUMENT-IDENTIFIER: US 6523027 B1

**** See image for Certificate of Correction ****

TITLE: Interfacing servers in a Java based e-commerce architecture

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 707/4; 707/10, 707/100

ABSTRACT:

A system, method and article of manufacture are provided for providing an interface between a first server and a second server with a proxy component situated therebetween. Initially, a request for a business object is identified by an application on the first server. The first server is then connected to the second server. Next, selection criteria from the first server is transmitted to the second server. In response to the selection criteria, the first server receives a first recordset and a second recordset from the second server. Business data is included in the first recordset and result codes are included in the second recordset. The first and second recordsets are mapped to the business object and the business object is sent to the application on the first server.

18 Claims, 179 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ROMC	Draw D
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☐ 15. Document ID: US 6519571 B1

L2: Entry 15 of 29

File: USPT

Feb 11, 2003

US-PAT-NO: 6519571

DOCUMENT-IDENTIFIER: US 6519571 B1

**** See image for Certificate of Correction ****

TITLE: Dynamic customer profile management

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 705/14

ABSTRACT:

The present invention is provided for utilizing various types of user indicia such as search requests, products purchased, products looked at but not purchased, products purchased and returned, reasons for returning products, customers stated profile including income level, education level, stated profession, etc. for the purpose of customizing a user interface.

17 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw De
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☐ 16. Document ID: US 6502102 B1

L2: Entry 16 of 29

File: USPT

Dec 31, 2002

US-PAT-NO: 6502102

DOCUMENT-IDENTIFIER: US 6502102 B1

**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for a table-driven automated scripting architecture

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haswell; John Jeffrey	Herndon	VA		
Young; Robert J.	Charlestown	MA		
Schramm; Kevin	Rose Valley	PA		

US-CL-CURRENT: 707/102

ABSTRACT:

A system, method and article of manufacture are provided for affording a table-driven automated scripting architecture. First, test script information is divided into a plurality of components of one or more words having a commonly understood meaning. Then the components are stored into a database. Later, the components are parsed into one or more words (each having a commonly understood meaning). The database is queried for the words to retrieve a set of computer instructions that cause a computer to perform functions related to the commonly understood meaning of the words and then to perform those functions.

20 Claims, 82 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 51

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw De
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☐ 17. Document ID: US 6473794 B1

L2: Entry 17 of 29

File: USPT

Oct 29, 2002

US-PAT-NO: 6473794

DOCUMENT-IDENTIFIER: US 6473794 B1

TITLE: System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 709/223; 709/224

ABSTRACT:

A system, method, and article of manufacture are provided for planning the testing of components of an existing network framework. First, a pictorial representation of an existing network framework is displayed along with a plurality of components of the existing network framework. Thereafter, the components of the existing network framework are indicia coded in order to convey a plan by which the components of the existing network framework are to be tested. The components may be indicia coded in order to convey an order of the testing or which components of the existing network framework are to be tested.

19 Claims, 177 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Drawing
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☐ 18. Document ID: US 6421793 B1

L2: Entry 18 of 29

File: USPT

Jul 16, 2002

US-PAT-NO: 6421793

DOCUMENT-IDENTIFIER: US 6421793 B1

TITLE: System and method for automated testing of electronic devices

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lester; Leland	Austin	TX		
Iglehart; David	Austin	TX		
Swain; Stephen J.	Austin	TX		
Becker; Marco	Oeding			DE
Race, Jr.; Charles W.	Austin	TX		
Perrine; Michael D.	Austin	TX		

US-CL-CURRENT: 714/37; 714/742

ABSTRACT:

A system and method are disclosed for automated testing of electronic devices. An original test is performed on a model product (24) while the model product (24) is coupled to a test recorder (12). During the test, the model product (24) is manipulated to invoke a desired response. As the test is performed, the manipulations and the desired responses are recorded by the test recorder (12) in an executable format (35). Subsequently, a test analyzer (12) is coupled to a to-be-tested product (24), and the executable recording (35) of the test is played such that the to-be-tested product (24) is manipulated as the model product (24) had been manipulated during the original test. The to-be-tested product's (24) responses to the manipulations are compared against the model product's responses (24). Any difference between the to-be-tested product's (24) responses and the model product's (24) responses are identified.

22 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw De
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☐ 19. Document ID: US 6405364 B1

L2: Entry 19 of 29

File: USPT

Jun 11, 2002

US-PAT-NO: 6405364

DOCUMENT-IDENTIFIER: US 6405364 B1

TITLE: Building techniques in a development architecture framework

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/101; 717/102, 717/120, 717/124

ABSTRACT:

A system is provided for building systems in a development architecture framework. The present invention is directed to both a system to be built and an implementation strategy to fulfill system requirements. Software components of the system are encapsulated with wrappers. The wrappers are adapted to be changed upon other software components of the system being changed while the encapsulated software components of the system remain unchanged. In one embodiment of the present invention, specifying the requirements of the system to be built and the implementation strategy to fulfill the requirements may be carried out using tools such as data modeling tools, process modeling tools, event modeling tools, performance modeling tools, object modeling tools, component modeling tools, reuse support tools, prototyping tools, application logic design tools, database design tools, presentation design tools, communication design, and usability test tools.

In another embodiment of the present invention, improving the performance and maintenance of the system may be carried out using tools such as interactive navigation tools, graphical representation tools, extraction tools, repository tools, restructuring tools, and data name rationalization tools.

12 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw De
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☐ 20. Document ID: US 6370573 B1

L2: Entry 20 of 29

File: USPT

Apr 9, 2002

US-PAT-NO: 6370573
DOCUMENT-IDENTIFIER: US 6370573 B1

TITLE: System, method and article of manufacture for managing an environment of a development architecture framework

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 709/223

ABSTRACT:

A system, method and article of manufacture are provided for managing an environment in a development architecture framework. Service of a system is managed based on service level agreements and/or operations level agreements. A plurality of system management operations are performed. The system management operations include start-up and shut-down operations, back-up and restore operations, archiving operations, security operations, and performance monitoring operations. Service is planned in order to anticipate and implement changes in the system.

15 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RWC	Draw De
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☐ 21. Document ID: US 6324647 B1

L2: Entry 21 of 29

File: USPT

Nov 27, 2001

US-PAT-NO: 6324647
DOCUMENT-IDENTIFIER: US 6324647 B1

**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for security management in a development architecture framework

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO	80918	

US-CL-CURRENT: 713/201; 709/223, 713/153

ABSTRACT:

A system, method, and article of manufacture are provided for providing security management in a development architecture framework. Unauthorized attempts to access a network are detected and when an unauthorized attempt to access the network is detected, a user is notified. Access from the network is restricted to a separate wide area network. The identities of users of credit cards are verified during transactions carried out over the network. The content of electronic mail communicated over the network is also monitored so that the communication of the electronic mail over the network is prevent when the content thereof being deemed inappropriate. The electronic mail is also encrypted during the communication thereof over the network.

18 Claims, 14 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw D
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☐ 22. Document ID: US 6256773 B1

L2: Entry 22 of 29

File: USPT

Jul 3, 2001

US-PAT-NO: 6256773

DOCUMENT-IDENTIFIER: US 6256773 B1

TITLE: System, method and article of manufacture for configuration management in a development architecture framework

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowman-Amuah; Michel K.	Colorado Springs	CO		

US-CL-CURRENT: 717/121; 707/203, 717/168

ABSTRACT:

A system, method, and article of manufacture are provided for affording consistency

in a development architecture framework as components in the framework change. A reference program code is provided and a plurality of sets of updated program code are received which represent different versions of the program code. The sets of the updated program code are compared with the reference program code in order to identify information relating to changes and the information is classified in relation to the changes. Tools are also provided for managing the different versions of the program code.

20 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 23. Document ID: US 6249882 B1

L2: Entry 23 of 29

File: USPT

Jun 19, 2001

US-PAT-NO: 6249882

DOCUMENT-IDENTIFIER: US 6249882 B1

TITLE: Methods and systems for automated software testing

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Testardi; Rich P.	Berthoud	CO		

US-CL-CURRENT: 714/38

ABSTRACT:

Methods and associated structures and systems for automating software test procedures so as to enable automated black box and white box testing techniques to be performed in an automated manner. The present invention further provides for test sequences to be easily maintained in synchronization with corresponding changes in the underlying source code files. In particular, white box and black box test sequences are described in a test language of the present invention in a manner which is embedded within comments of the programming language used to implement the software product. Such comments are ignored by software development tool sets. Testing tools of the present invention parse the source code files to extract white box and black box test sequences defined in the comments therein. The test sequences so extracted are then performed by the test tool in cooperation with a software debugging tool for purposes of applying stimuli both for black box testing of the software product as a whole and for white box testing of internal functions and modules of the software product.

24 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D.
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☐ 24. Document ID: US 6047389 A

L2: Entry 24 of 29

File: USPT

Apr 4, 2000

US-PAT-NO: 6047389

DOCUMENT-IDENTIFIER: US 6047389 A

TITLE: Testing of a software application residing on a hardware component

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thai; Victor M.	Dallas	TX		

US-CL-CURRENT: 714/38

ABSTRACT:

According to the system and method, at least one test script is provided for testing a function of the software application. A testing interface, loaded into the hardware component, is operable to input the test script into the software application. A dispatch may be in communication with the testing interface. The dispatch receives a command from a user and, in response, invokes the input of the test script into the software application using the testing interface.

20 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D.
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☐ 25. Document ID: US 5937154 A

L2: Entry 25 of 29

File: USPT

Aug 10, 1999

US-PAT-NO: 5937154

DOCUMENT-IDENTIFIER: US 5937154 A

TITLE: Manufacturing functional testing of computing devices using microprogram based functional tests applied via the devices own emulation debug port

DATE-ISSUED: August 10, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tegethoff; Mauro V.	Fort Collins	CO		

US-CL-CURRENT: 714/30; 712/227

ABSTRACT:

A manufacturing test system and method is presented for testing a computing system under test, which includes a computing device comprising internal emulation debug hardware and an emulation debug port through which the debug hardware is controlled. Manufacturing-level microprogram based functional tests are executed under the control of the internal emulation debug hardware of the computing device. A computing system probe applies the microprogram based functional test to the internal emulation debug hardware of the computing device via the emulation debug port. The manufacturing-level microprogram based functional test may be executed during at any level of computing device integration including the wafer, package, board, multi-chip module and system levels.

26 Claims, 8 Drawing figures

Exemplary Claim Number: 15

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 26. Document ID: US 5881219 A

L2: Entry 26 of 29

File: USPT

Mar 9, 1999

US-PAT-NO: 5881219

DOCUMENT-IDENTIFIER: US 5881219 A

**** See image for Certificate of Correction ****

TITLE: Random reliability engine for testing distributed environments

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leung; Theodore Wei-Yun	Cupertino	CA		
Raj; Shoba	San Jose	CA		

US-CL-CURRENT: 714/31; 714/47

ABSTRACT:

A method, apparatus, and article of manufacture for a computer-implemented random reliability engine for testing distributed computer environments. The random reliability engine performs reliability testing of applications in a distributed environment. The random reliability engine simulates a user who is invoking various commands in various documents that are open in the distributed environment. The random reliability engine is a random rule based engine that generates random sequences of commands on documents. The random reliability engine generates these sequences for a fixed amount of time. When these sequences are successfully executed within the fixed amount of time, the random reliability engine determines that the distributed environment is reliable. Moreover, the random reliability engine can be implemented as a graphical user interface test script that is executed by a graphical user interface driver.

42 Claims, 6 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw De
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☐ 27. Document ID: US 5657438 A

L2: Entry 27 of 29

File: USPT

Aug 12, 1997

US-PAT-NO: 5657438
DOCUMENT-IDENTIFIER: US 5657438 A

TITLE: Interactive system for developing tests of system under test allowing independent positioning of execution start and stop markers to execute subportion of test script

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wygodny; Shlomo	Ramat Hasharon			IL
Zohar; Shahar	Rfar Saba			IL
Azulay; Alex	Herzlia			IL
Slonim; Yochanan	Herzlia			IL
Weinbaum; David	Tel Aviv			IL

US-CL-CURRENT: 714/1; 714/38, 714/45, 717/100, 717/124

ABSTRACT:

A system for developing tests of a System Under Test (SUT) which includes a Central Processing Unit (CPU), a screen and input apparatus. The system for developing tests includes a manipulation apparatus enabling an operator to manipulate, within a test workspace, a sequence of test script statements into a desired script, wherein the test script statements describe operator commands to the SUT and screen capture and verify operations and b) interactive execution apparatus for executing at least a portion of the desired script by providing the at least a portion of the desired script to the SUT thereby to operate the SUT as desired.

19 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw De
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☐ 28. Document ID: US 5634002 A

L2: Entry 28 of 29

File: USPT

May 27, 1997

US-PAT-NO: 5634002

DOCUMENT-IDENTIFIER: US 5634002 A

TITLE: Method and system for testing graphical user interface programs

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Polk; George A.	Sunnyvale	CA		
Ivanovic; Vladimir G.	Palo Alto	CA		
Muller; Hans E.	Saratoga	CA		
Kern; John S.	Mountain View	CA		
Jervis; Robert	Monte Sereno	CA		
DeLong; Rance	Los Gatos	CA		

US-CL-CURRENT: 714/38; 714/46

ABSTRACT:

In a preferred embodiment, the present invention provides an improved method and system for testing a graphical user interface program. The preferred embodiment provides improved performance over prior methods because it decouples the testing of an program's engine component from the testing of its GUI component. The preferred method begins the testing process by invoking test functions that send data to the program's engine component. The data simulates user action on the graphical user interface of the program. In response to receiving the data, the engine component processes the simulated user action as if it had been sent from the graphical user interface component. The preferred method captures the results of this processing and uses the results to determine whether the engine component is performing properly. By testing the engine component without invoking the graphical user interface component, the preferred embodiment reduces the overall time spent testing the GUI program and allows the testing of the program to begin at an earlier point in the development process than had earlier been possible.

19 Claims, 9 Drawing figures
Exemplary Claim Number: 11
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWC	Drawing
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☐ 29. Document ID: US 5596714 A

L2: Entry 29 of 29

File: USPT

Jan 21, 1997

US-PAT-NO: 5596714

DOCUMENT-IDENTIFIER: US 5596714 A

TITLE: Method for simultaneously testing multiple graphic user interface programs

DATE-ISSUED: January 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Connell; Mark A.	Los Gatos	CA		

US-CL-CURRENT: 714/38; 714/46

ABSTRACT:

A method for testing programs running under a Graphic User Interface (GUI) is provided. The method is especially adapted to work with GUI's operating in a network based display architecture, such as the X11 server release of X Window. The invention provides a mechanism to test several GUI based programs simultaneously while also allowing normal interactive workstation activities to continue. The invention does not require the use of a special X11 server, or the relinking of tested code. The invention may operate using either of two approaches, depending on the capabilities of the window system being used. The first approach uses a mechanism that duplicates the contents of a window into off screen storage. Since this memory copy of a window is guaranteed to be identical to the on screen window, it can be read in place of the screen contents to test for proper drawing. In the case of systems which do not support a memory resident copy of screen windows, the tester automatically places the correct window on top of all others. Since there may still be conflicts if there are multiply copies of the tester running, as can happen when more than one tester may be trying to place the windows on top of the others at the same time, a locking mechanism is provided for the screen. This mechanism prevents a window from one test from obscuring a window being captured for another test.

5 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EXMC	Drawing De
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

L1 AND (test ADJ script)

29

Display Format: REV

Change Format

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